Name _____

## Share and Show 〔Math Board〕

**Write a rule for the sequence.**

**1.** 0.5, 1.8, 3.1, 4.4, …

   **Think:** Is the sequence increasing or decreasing?

   **Rule:** _____

**2.** 23.2, 22.1, 21, 19.9, …

   **Rule:** _____

**Write a rule for the pattern using an expression. Then use the rule to find the unknown term.**

**3.** 0.3, 1.5, _____ , 3.9, 5.1

   **Rule:** _____

**4.** 19.5, 18.8, 18.1, 17.4, _____

   **Rule:** _____

> **Math Talk**  **MTR 2.1** Demonstrate understanding in multiple ways.
>
> Besides addition, what other operation can be used to describe an increase from one term to the next?

## On Your Own

**Write the first four terms of the sequence.**

**5. Rule:** start at 10.64, subtract 1.45

   _____, _____, _____, _____

**6. Rule:** start at 0.87, add 2.15

   _____, _____, _____, _____

**7. Rule:** start at 19.3, add 1.8

   _____, _____, _____, _____

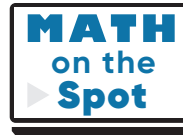**8. Rule:** start at 29.7, subtract 0.4

   _____, _____, _____, _____

**9.** Marta put $4.87 in her coin bank. Each day she added 1 quarter, 1 nickel, and 3 pennies. How much money was in her coin bank after 6 days? Write the rule for the pattern as an expression.

   _____

   _____

**10.** ▌**MTR**〉 Look at the list below. Do the numbers show a pattern? Explain how you know.

   11.23, 10.75, 10.3, 9.82, 9.37, 8.89

   _____

   _____

**11.** Bren has a deck of cards. As shown below, each card is labeled with a rule describing a pattern in a sequence. Select a card and decide on a starting number. Use the rule to write the first five terms in your sequence.

**MATH on the ▶ Spot**

| Add 1.6 | Add 0.33 | Add 6.5 | Add 0.25 | Add 1.15 |

Sequence: _____ , _____ , _____ , _____ , _____

Write a problem that relates to your sequence and requires the sequence be extended to solve.

**Pose a Problem**

_____

_____

_____

_____

_____

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_____

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_____

**Solve your problem.**

**12.** Jin-hye and Huy are playing a number pattern game. Huy wrote the following sequence.

33.5, 34.6, 35.7, _____, 37.9

What is the unknown term in the sequence? _____